COMPUTER NEWS

University of Toronto

May '78

ISSN 0316-4661

No. 159

COMPUTERNEWS is a monthly publication produced by the University of Toronto Computer Centre. Enquiries or contributions should be directed to the Editor, Janet Campbell or the Assistant Editor, Cathy Gillevet in the Engineering Annex, room 206 or (416)-978-2066. Layout and ATS typing are provided by Kathryn Bourne. Subscription changes should be directed to the Information Office, Engineering Annex, room 206 or (416)-978-4990.

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P78-0537 (7)

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416/978-2066

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UTCC'S SYSTEMS HARDWARE GROUP

The nature of the work performed by certain UTCC staff members is such that they have little direct communication with the user community. As such, users are generally unaware of the services these members provide. An example of such a group is the one which is responsible for hardware installation and maintenance.

The members of UTCC's Systems Hardware Group are Eugene Siciunas (the Manager of the Group), Alex Lam, and Kam Mark. Generally speaking, the Group is responsible for the hardware comprising all four UTCC mainframes, for all teleprocessing links from these mainframes, and for most of the terminals attached to these links.

With respect to the central hardware, the Group ensures that the hardware is operating efficiently. The specific duties of the Group within the area of hardware assurance include anticipating future hardware needs and evaluating the available hardware in terms of function, reliability and performance. In addition, the Group resolves maintenance responsibility in a multi-vendor environment, ensures that hardware repairs are carried out expeditiously, and is involved in the planning, co-ordination and supervision of hardware installations and testing. The Group also interfaces with the Software Assurance and Development Groups to co-ordinate software aspects of hardware installations.

The function of the teleprocessing links is to connect the central hardware, or mainframes, to the terminals. The maintenance of this area is essential to the integrity of the overall system. Consequently, other responsibilities of the Systems Hardware Group lie within the teleprocessing area. The Group installs and maintains the teleprocessing links to the terminals and Remote Job Entry (RJE) stations on all four UTCC mainframes. When link problems arise, the Group works with Bell Canada to identify the nature of the teleprocessing link problems and then assigns the responsibility of effecting repairs.

As well, the Group is responsible for repairing defective modems and baseband drivers, for the operation of the dial-up facilities on three mainframes, and for the provision of teleprocessing support to other UTCC groups through hard-wired teleprocessing links, custom switching units, and other teleprocessing enhancements.

Finally, to ensure the efficient operation of the system, the Group is responsible for the installation and maintenance of most UTCC owned interactive terminals, including both public and individual user terminals. In the case of terminals maintained by the vendor, the Group determines whether problems are due to defective modems, faulty communication lines, operational problems or due to a malfunction within the terminal itself.

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SYSTEMS HARDWARE GROUP cont'd

Then, based on its findings, the Group takes the appropriate action. In addition, the Group constructs modifications to terminals so that the terminals can provide different character sets (either APL, or unique, user-specified character sets). The Group also modifies terminals for public use and evaluates new terminals in terms of function and suitability.

Although a system configuration may appear to be operating satisfactorily, it may not be operating with maximum efficiency. Another responsibility of the Systems Hardware Group is related to system performance evaluation. The Group designs, constructs, installs and maintains hardware monitoring equipment on the mainframes. This equipment varies from teleprocessing activity indicators, console and CPU monitors, to TORMON, a hardware monitor developed by the Group. The Systems Hardware Group collects and analyzes the data provided by these monitoring aids and, together with the Software Assurance Group, tunes the system for optimal performance.

In addition to the services outlined in the above, the Group maintains the documentation on all UTCC cables, terminals, teleprocesssing addresses, modems, Bell Canada links, and dial-up lines. The Group also provides assistance to users experiencing terminal or access problems by recommending solutions to these problems or suggesting other possible approaches. Finally, the Group informs other UTCC groups of hardware and teleprocessing developments as well as future offerings.

The services provided by the Systems Hardware Group largely contribute to the smooth operation of UTCC. As well as acting as an interface between the user community and suppliers of equipment, the Systems Hardware Group ensures the efficient operation of the various systems available at UTCC.

Cathy Gillevet

ST. GEORGE CAMPUS USER FORUM

On May 24, a User Forum was held for the St. George campus users of UTCC. This meeting was a followup from the previous forum at which users were urged to form their own user committee in order to keep the Computer Centre informed as to users' opinions concerning policies and services.

The turnout for this meeting was very small, and it was emphasized that any committee hoping to have a significant influence on decision making would have to be fairly large, or represent a large proportion of users.

Much of the discussion focused on the purpose of a user committee and exactly what influence it should have on the Computer Centre. One user felt that the committee should discuss information about new product lines and communication techniques. Dr. Cohen expressed the feeling that the committee should really be concerned with services as opposed to technology. Reliable feedback from users would have a twofold effect on policy making. First, it would illuminate past decisions, making both the positive and negative aspects clear, thus leading to improved decision making in the future.

cont'd...

ST. GEORGE USER FORUM cont'd

Second, feedback obtained before decisions are made or implemented can result in improvements to policies before they are confirmed. Obviously this would result in improved overall service to computer users. Stress was laid on the importance of keeping in touch with the user community in a concrete way, such as via user forums, in order that the users' needs are fully considered in the decision making process.

One user suggested that the weight of the user voice should reflect the volume of computing done by that user and the professional and technical knowledge of the user. Although this idea has some merit, the Computer Centre realizes that many of the people who actually do large amounts of computing are not the account holders themselves. We are interested in hearing the opinions and concerns of all computer users.

Dr. Cohen spent some time outlining future concerns of UTCC. He briefly referred to the upgrade of the DEC 1060 to a 1090, and the consolidation of the machines in McLennan Laboratories. He stressed that the latter operation will be carried out in a manner as transparent to users as possible. He then went on to talk about the future of the High Speed Job Stream (HSJS). Basically this involves a movement away from batch towards the use of console terminals for I/O. Waterloo and Queen's Universities have already implemented systems of this type. A cost-effective standardized micro system is envisioned, such that each terminal has a micro with possibilities of local processing. Students would carry their programs on floppy disks and load them into the terminals when desired. Some processing would be downloaded to the mainframe and some would be done at the micro at the terminal. This would be a dynamic system in that, with the use of the micros, it could be continually upgraded, thus avoiding obsolescence. UTCC is currently considering a pilot project in this area. At the moment, the ideas expressed above are solely exploratory.

The next User Forum will be held on July 12. All computer users are urged to come and share their opinions with UTCC personnel.

Jill Reece

UTCC SUMMER SHORT COURSES

A number of short, non-credit courses are planned for the month of June. These are intended as introductory courses to get the user started, the duration of each course being between 5 and 10 hours. To register, contact the Information Office, Engineering Annex, Room 206, 978-4990. Please note that only those users holding a valid Customer Account Number (CAN) and an appropriate System Access Code (SAC) will be eligible to attend.

1. Introduction to OS Job Control Language (JCL)

Prerequisite: Some basic understanding of computing.

Dates: June 5,6,7,8 and 9.

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SUMMER SHORT COURSES cont'd

Time: 10:00 - 11:00 a.m.

JCL is a set of control statements which must be supplied to the operating system to give it the information required to initiate, process and complete a job or unit of work. These statements communicate details such as who the user is, what he or she wants done, how much time it will take, how much space is required, what devices will be involved, what data and problem solving routines are to be used, where they are located and where the results are to be printed or stored. The approach taken will be to present the basic JCL statements, their uses and coding rules.

2. Introduction to Statistical Packages for the Social Sciences (SPSS)

Prerequisite: Background in Social Sciences statistics plus Course #1 or equivalent.

Dates: June 13,14,15,20,21 and 22.

Time: 4:00 - 5:00 p.m.

This course is aimed at Social Sciences users who plan to use the S/370-165-II to process their data. SPSS is an applications oriented programming language which contains powerful routines for the analysis of data while allowing users to manipulate their data with simple FORTRAN-like statements. The course will be an introduction to SPSS for users who are not familiar with the package. It would not be suitable for those who already have a working knowledge of SPSS.

3. Introduction to DEC 10 for "Card" Programmers

Prerequisite: Experience in writing and running programs.

Dates: June 5,6,7,8 and 9.

Time: 2:00 - 4:00 p.m.

Oriented towards those currently using the batch processing mode of operation, this course will introduce the concepts of interactive computing on the DECsystem-10. On completion, the student should be able to communicate with the TOPS-10 operating system using the basic commands of the control language and should be familiar with the available user service programs or "Utilities". The first hour each day will be lecture and the second hour will be lab. work. Enrollment is limited to 12 people.

4. Introduction to DEC 10 for "Terminal" Programmers

Prerequisite: Same as #3.

Date: June 19,20,21,22 and 23.

Time: 2:00 - 4:00 p.m.

Same as #3 except that a knowledge of interactive computing will be assumed. The planned approach is to discuss and illustrate the essential differences between conversational programming on the DEC 10 and TSO, WYLBUR, etc. One hour of lecture and one hour of lab. work. Enrollment is limited to 12 people.

cont'd...

SUMMER SHORT COURSES cont'd

5. Introduction to Programming Using BASIC on the DEC 10

Prerequisite: Some knowledge of computing concepts.

Dates: June 5,7,9,12,14 and 16.

Time: 1:00 - 3:00 p.m.

BASIC is a conversational, problem solving language that is well suited for use in a time-sharing environment. BASIC is easy to learn and use. BASIC has been widely applied in the scientific, business and educational communities. As well, BASIC can be used to solve both simple and complex mathematical problems from the user's terminal.

This course will be aimed exclusively at the non-programmer. While learning the concepts of interactive computing and communicating with the DEC 10 operating system, the student will be taught how to code simple applications in the BASIC language. The objective of the course is to give the student a foundation on which to build his/her own programming knowledge and expertise. Enrollment is limited to 12 people.

Marg Doherty

DECSYSTEM-10 NEWS

With the implementation of "Eligibility Accounting" on the DEC 1060 on May 1, no jobs may log in under a PPN which has exceeded its dollar limit unless overdraft privileges have been specified for the PPN. Once a LOGIN has been successfully performed, the PPN's remaining balance or, in the case of overdraft accounts, total usage, is reported. In addition, off-line charges accrued against the PPN since previous LOGIN are also noted.

Comments and suggestions re "Eligibility Accounting" may be submitted to UTCC via the GRIPE Procedure.

Upgrade to 1090 System

The upgrade to a 1090 system is tentatively scheduled to begin at 5:00 p.m. Friday, June 16, 1978. The DEC will be unavailable to users during the installation period. Users should have access to the new 1090 system by 8:00 a.m. Monday, June 19. In the event of unexpected delays, the upgrade will occur on the following weekend. Final details will be announced in the DEC message of the day.

The upgrade should be transparent to users. Programs should run unchanged on the 1090 but users should be aware that some programs will run more efficiently if recompiled.

cont'd...

DECSYSTEM-10 NEWS cont'd

Support for 2741-type Terminals

The DECsystem-10 was designed to be used with ASCII terminals. 2741-type terminals are supported but there is a significant amount of inconvenience to the user. The major difficulties result from the necessity of simulating the various control and escape characters which are available on all ASCII terminals.

UTCC is presently preparing a short summary of the support available for EBCDIC and Correspondence terminals connected to the DECsystem-10. This document will be available soon.

Rate Schedule Review

The review of the Rate Schedule for the DECsystem-10 is still in progress. Details will be announced to users as soon as they become available.

Extended File Security on the DECsystem-10

One of the most important features of the DECsystem-10 is its file protection system. Most users are aware of the basic file protection scheme in which a three digit octal number is used to specify what type of access is to be permitted to the file owner and other users. Users unfamiliar with this file protection scheme will find it documented in USERBOOK (Draft) 7.3030 and the _DEC Operating System Commands_ manual.

What may be less familiar to users is the "File Daemon" (pronounced "demon"), the scheme which provides extended file protection. Using this procedure, a user can tailor his file protection in such a way that specific PPNs (or categories of PPNs) can be given specified access privileges to his files (or even be allowed to create a new file in the user's directory). In addition, a log file of attempted accesses (successful, failed or both) can be produced if the user chooses.

Some applications which the File Daemon makes possible are:

1. Allow a user to create files in someone else's directory after which the files become inaccessible to the user who created the files. This concept corresponds to a student turning in a homework assignment.

2. Allow certain PPNs to update a database, provided that the user is running an "execute-only" program owned by a third PPN.

3. Prevent all access by any PPN including [1,2] (i.e., the DEC operator). If the user wishes to have his files backed up, he can relax the restriction in the case of [1,2] by running the BACKUP program.

The following summarizes the procedure a user must follow to make use of the File Daemon:

1. The file in question must have a basic protection such that the access would normally fail.

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DECSYSTEM-10 NEWS cont'd

2. The owner's protection code for the file in question must be 4 or greater. (e.g. a file protection of <477> would suffice for points #1 and #2).

3. There must be a file named ACCESS.USR which contains an entry specifying the file in question, the PPNs which may access it and the type of access allowed.

4. The owner's protection code for ACCESS.USR file must be 4 or greater.

A typical ACCESS.USR file might look something like the following:

```
ACCESS.*/NONE=[*,*]

*.*/READ=[1,2]/PROG:SYS:BACKUP
*.*/READ=[12,34]
*.HWK/CREATE/PROT:077=[34,*]/NONE

FOO.BAR/UPDATE=[43,21]/PROG:FOODAT[14,32]
```

Keeping in mind that the File Daemon reads ACCESS.USR sequentially until it gets a match of all specified conditions, this example would have the following effects:

a. No files named ACCESS can be accessed by anyone, including the operator or the user himself.

b. All other files can be read for backup purposes.

c. All other files can be read by 12,34.

d. Files with extension HWK can be created with protection 077 in the user's directory by all programmers in project 34. Once the file is written, only the user will have access to it.

e. FOO.BAR can be updated by 43,21 provided he is using the FOODAT program which belongs to 14,32.

Users interested in using this facility should obtain a copy of the file DOC:FILDAE.MEM which contains a much more detailed description of the features of the File Daemon.

Ed West

DEC GRIPES

"The QUEUE switches don't work - I wish they would fix them. Well, I guess I'll just use the switches that do work. They probably already know about the problem anyway..."

Does the monologue above seem familiar? The DEC user who is typing at his terminal, muttering about the switch problem, cannot hope to have the problem solved unless his monologue can be turned into a productive dialogue.

DEC users can send UTCC their complaints, comments, or suggestions, by running the GRIPE program. To use the GRIPE program, enter the following command in response to the monitor prompt:

```
R GRIPE
```

The computer will respond:

```
YES?(Depress ESCape key
     when through)
```

cont'd...

DEC GRIPES cont'd

At this point, the user may enter his "gripe" and terminate the input by hitting the ESCape (or ALTMODE) key.

GRIPES are answered by a UTCC staff member using an APLSF program called EGA (Electronic Answer). All responses to GRIPES are signed and dated by a UTCC staff member. The PPN and user name are removed from the original GRIPE.

Since the DEC is an interactive machine, UTCC has installed a CUSP program on the DEC to list the GRIPES and their responses at the terminal. To view the GRIPES, type the monitor command:

```
R GRIPA
```

The GRIPES and their responses will then be listed on the terminal from the most recent entry to the oldest. Hit control C to halt the GRIPA program. Note that it is advisable to enter the following monitor command before invoking the GRIPA program:

```
TTY NO BLANKS
```

This will suppress blank lines in the GRIPA program.

Users who ran the initial version of GRIPA will notice that the new version costs about one tenth of the original. The new program is written in FASBOL (an implementation of SNOBOL) while the old version was written in CPL. Since the FASBOL program occupies fewer pages and does not have the overhead of the high segment of CPL, memory charges have been considerably reduced. If you have an involved GRIPE, contact the time-sharing advisor at 978-6465.

Mark Tapia

MVS INSTALLED ON THE 158

MVS was installed as the production operating system on the S/370-158-3 at 8 a.m., April 3rd, 1978. This article will give a brief history of the installation project and a report on the first month of operation.

Project History

The conversion of UTCC's Information Systems Service to the MVS operating system had been under consideration for a relatively long period of time. Although the primary reason for the installation of HASP under the VS1 operating system on the 155 in December 1976 was to significantly improve job input and output handling. functions, a secondary reason was to provide an easier eventual migration path to MVS (which, in fact, it did very nicely). However, once it was recognized that MVS was not an appropriate operating system for a 1.5 Megabyte 155-II, no futher work was accomplished on the project at that time.

In July 1977, in order to cope with increased demand, a S/370-158-3 replaced the 155-II. Because of this event, (reported in COMPUTERNEWS #148 and #149) a conversion to MVS now seemed possible. However, the first priority was the update of the database software, IMS/VS, to a version which would provide improved performance and run effectively under MVS. When this was accomplished in late August 1977, the S/370-158-3 Software Group began serious work on MVS. By making use of the MVS-IPO, a pre-generated, pre-maintained operating system from IBM, a working MVS with TSO was available a few days later on September 5th.

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MVS INSTALLED ON THE 158 cont'd

The availability of TSO during "test time" from that date onward greatly aided the Software Group. TSO was later enhanced by the installation in mid-November of the "Structured Programming Facility" (SPF). This package greatly enhances the productivity of the TSO user with a 3270 (or equivalent) terminal by providing an advanced function, "full-screen" editor, as well as simplifying many tasks such as dataset allocation and library maintenance.

During the period September 1977 to February 1978, the efforts of the Software Group were directed towards making the MVS system as compatable as possible with the VS1 production system. This was accomplished and the MVS system was ready for user testing by the end of February. Throughout this process, the Software Group was significantly aided -- in the form of advice and local modifications and enhancements -- by the already existing MVS expertise from within UTCC.

During March 1978, extensive user testing of batch jobs and the online IMS services was carried out. This culminated in a "live test day" on March 23rd, which consisted of running MVS under an actual production batch and online IMS workload from 8 a.m. until 5 p.m. The few minor problems which were detected during this final test were then fixed prior to the April 3rd installation.

The First Month

The installation of MVS resulted in two major benefits being realized almost immediately: better batch performance, and improved system reliability. The turnaround of short batch jobs improved significantly due to the more effective job management techniques used in MVS versus VS1. This was as predicted and had been demonstrated in benchmarks prior to installation. System reliability also improved as expected. Although there were several failures of individual sub-systems during the month of April, these failures were effectively isolated so that MVS did not fail. (Under the VS1 operating system, failures such as those experienced had resulted in the entire system failing.) As a result, uptime for MVS in April was 100%. MVS has even made recovery after failure somewhat faster. Online IMS can now be restarted after most failures in less than 5 minutes -- versus 10-15 minutes under VS1.

Along with these major results, a number of other benefits have been realized. Users can now control the amount of virtual storage allocated to them (this was fixed under VS1). Databases can be removed from the online IMS system without disrupting the service. Increased flexibility is available in batch application design, e.g. reports can now be printed prior to program termination. In addition, a greatly improved operator interface has given the operations staff better control over the workload.

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MVS INSTALLED ON THE 158 cont'd

The MVS installation on the S/370-158-3 has been a success. I would like to take this opportunity to thank the people directly responsible: first of all, the S/370-158-3 Software Group -- Sue Gardner, Drew Millar, Ran Talbott, and Terry Wood; and secondly, all the S/370-158-3 users whose time and efforts during the testing phases helped ensure a smooth transition.

Sean Keeley

USE OF PAPER TAPE OR MAGNETIC TAPE UNDER TCAM/TSO WITH ASCII TERMINALS

UTCC would like to establish contact with users who currently use or plan to use ASCII devices to support paper or magnetic tape input using TSO. At present, UTCC has no indication of the amount of use being made of this facility. UTCC would like to ascertain who the users of this facility are, what applications the facility is being used for, the anticipated future use and general comments on the reliability and usability of the service.

At present, the modifications to MVS/TCAM, which will provide for continued support of paper or magnetic tape under TSO, have not been implemented. There are two reasons for this. First, the development effort required for this conversion would be considerable. As such, UTCC would first like to determine if the usage of the service under MVT is significant enough to warrant the implementation of the modifications to MVS/TCAM. The second reason is that these MVS/TCAM modifications could potentially have an impact on the future support of other terminal types.

Also, UTCC has virtually no background as to what assistance was supplied to users to get them started, or what continuing support was offered, other than the general information which is included in USERBOOK. Information of this nature is required in order for UTCC to determine the best approach to continue support of this facility or investigate alternatives if required.

Users of this facility are asked to either phone Derry Cox (978-7092) or drop him a note with their name and telephone number so that he may arrange for a short telephone interview concerning various activities involving this modification . Please note that this request is directed only to TCAM/TSO paper tape users of the service documented in USERBOOK module 3.3TSO.SPECAPP (pages 18-21) and not to users of the batch paper tape service documented in USERBOOK 3.8 PAPERTAPE.

Derry Cox

ONLINE STORAGE (165)

UTCC has continuously monitored the consumption of online storage and has noted in recent weeks that the percentage of available storage on the USER volumes has fallen below acceptable standards. This has been supported by reports from a few users who have occasionally experienced difficulties in allocating large datasets.

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ONLINE STORAGE cont'd

Relief is on the way. By the time our subscribers receive this edition of COMPUTERNEWS, another 100 megabytes of available storage will have been added to the USER online facility, bringing the total external USER online storage capacity to approximately 1.1 billion bytes. Barring any unforeseen difficulties in delivery or installation, the available space situation should be resolved for at least the summer period.

Derry Cox

CHANGES TO USERBOOK

At the end of June, the USERBOOK chapter 3.7APPLICATION SOFTWARE and most of its associated modules will be reissued. Chapter 3.7 contains information pertaining to the mathematical and statistical packages available on the S/370-165-II computer. This information has been extensively updated and substantially reorganized.

Several disk datasets containing mathematical and statistical routines will be renamed shortly after the revised USERBOOK material is distributed. For many users, the new dataset names will not necessitate any program changes. However, those who use the International Mathematical and Statistical Library (IMSL), Argonne National Laboratory Eigensystem Package (EISPACK), the old IBM Scientific Subroutine Package (SSP), the Designers Optimization Package (OPTISEP), the ENGLIB routines, or the MATHLIB routines will have to slightly modify some of the Job Control Language (JCL) statements. (For information concerning OPTISEP, see the article in this issue of COMPUTERNEWS entitled ATTENTION OPTISEP USERS.)

The dataset names will be changed on the S/370-165-II on Tuesday, July 4. Anyone who uses the software mentioned above should contact a Computing Co-ordinator or an advisor to obtain the required JCL changes. Alternatively, queries can be directed to Bob Chambers at 978-8823 .

Bob Chambers

STATISTICAL PACKAGES

Over the course of the next month, almost all of the statistical software available at UTCC will be upgraded. Because of the chronic shortage of on-line disk space, it will probably be impossible to maintain on-line backups of the older versions. After testing the new versions with the test programs provided by the supplier, the older version will be backed up off-line and deleted from the on-line disk. This testing procedure is by no means comprehensive, but we cannot keep backups on-line. Users experiencing any problems with the following packages are urged to contact John Roth at 978-6878. The upgrades pending are:

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STATISTICAL PACKAGES cont'd

BMDP77

The new BMDP-77 package will replace the current (August 1976) version. This package includes some new programs and fixes to most of the previously available ones. The JCL required to access these programs will not change. There is a new manual which is available at the Information Office. The new manual contains statements to the effect that certain routines supersede BMD routines. In light of this, users are urged to consider switching from the older BMD routines to the new BMDP-77 routines. The BMD routines will not be removed from the system, but support will be dropped to the "use at your own risk" level.

Data-Text

This will essentially be a maintenance release of the level 3.3 of Data-Text. A few bugs have been fixed and documented features finally implemented. The NOLABELS feature, used to suppress listing of value labels, etc. after a READ DATATEXT, has been re-implemented. The JCL and documentation for Data-Text remain unchanged.

SAS

Release 76.6 of the Statistical Analysis System will be installed. This is mainly a maintenance release, fixing a few bugs. The only major enhancement is that PROC CHART has been re-written and is now working. The JCL and documentation for Batch SAS and the command sas under TSO remain the same.

SPSS

Release 7.2 of versions H (regular, 500, variable limit) and M (maxi, 1000 variables) of SPSS will be implemented. These are both maintenance releases to fix a few bugs. The JCL and documentation for SPSS remain unchanged.

SCSS

Release 2.2 of the Conversational SPSS Statistical System will be implemented soon. Some enhancements have been made and there is a new manual which is available on request from the SCSS Co-ordinator (phone 978-6878). The system is accessed by giving the command scss in TSO.

John Roth

ATTENTION OPTISEP USERS

OPTISEP, a package of FORTRAN subroutines obtained from the Mechanical Engineering Department of McMaster University, is designed to solve constrained optimization problems using a variety of algorithms. This is the only package available on the S/370-165-II specifically tailored to solve minimization problems with equality and inequality constraints.

Some, but not all, of these routines have been available in the load module libraries APPL.OPTISLIB (single precision) and APPL.OPTIDLIB (double precision). Various users have experienced difficulties with these routines because they were coded for a CDC machine.

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ATTENTION OPTISEP USERS cont'd

The complete set of OPTISEP routines, translated for the IBM S/370-165-II, is now available. Because most of these routines are iterative in nature, only the double precision versions are available. The load modules are stored in the dataset APPL.MATH.OPTSPLIB. To access them using, say, the FORTGO procedure, code the EXEC card as

```
 // EXEC FORTGO,IX=APPL,
 // LIBRARY='MATH.OPTSPLIB'
```

The source code is available in the dataset APPL.MATH.OPTSPCOD. It is expected that the datasets APPL.OPTISLIB and APPL.OPTIDLIB will eventually be removed from the system. Present OPTISEP users are advised to use the new library.

The OPTISEP manual is available for reference in the Information Office and at the Physics Terminal (Room 1202 in the Burton Tower). Any questions or problems can be directed to Bob Chambers at the Physics Terminal, (phone 8823).

Bob Chambers

AN APL PUBLIC LIBRARY ABSTRACTS CATALOGUE

UTCC's SHARP and DEC APL Public Libraries contain many powerful and convenient application-oriented tools -- tools which allow the user to quickly and painlessly perform a great number of useful operations in areas ranging from workspace listing to statistical calculations. However, in order to use these tools, the user must know that they exist, and in what library and workspace they reside. Unfortunately, in the past many users have either "re-invented the wheel" (written their own programs which performed calculations which could have been performed by a public library function directly) or have racked their brains trying to recall the library number and workspace name of the public library function which they required.

UTCC has now addressed this problem with the publication of a "SHARP APL and DEC APL-SF Applications Library Abstracts" manual. This guide contains a short (one paragraph) description of each of the public library workspaces available on SHARP and DEC APL at UTCC. In addition, the guide contains an index which can direct users with particular problems or thinking of specific application areas to public workspaces which may be useful.

Copies of this "Abstracts" manual are available from two sources. Bound printed copies of the guide are available from the Information Office, Room 206, Engineering Annex. In addition, APL users can generate their own copies of this useful document using the function "ABSTRACTS" in SHARP APL Library Workspace "1 CATALOG". By using this function, the user can have the guide printed at his own terminal, or routed to the high-speed printer for printing. However, if the ABSTRACTS function is used, high-speed printing is recommended since the manual is 43 pages in length.

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APL PUBLIC LIBRARY CATALOGUE cont'd

Comments regarding either the format or the content of this new publication would be most welcome and should be directed to DATATALK (978-6710) or to John Bradley (978-3995). In the meantime, UTCC recommends that all users of APL should acquire a copy of this new guide -- it may save them considerable time and effort. And besides, who knows what interesting application may be lurking in the UTCC APL Applications Library which you have never heard about??

John Bradley

THE 9TH ONTARIO UNIVERSITIES COMPUTING CONFERENCE

The theme of this year's Ontario Universities Computing Conference is "Time-sharing and Interactive Computing in the University Environment." The preliminary agenda for the Conference, which will be hosted by Carleton University from June 21 - 23, 1978, is presently available at the Information Office, Room 206, Engineering Annex.

ENGINEERING ANNEX COMPUTING CO-ORDINATOR

I am pleased to welcome Jill Reece as the new Computing Co-ordinator for the EAT and EUT terminals at the Engineering Annex. Jill is recognized by many UTCC users as a former Co-ordinator at the Arts and Science Terminal in Sidney Smith. Her background is in research methodology and statistical computing. People with computing questions or problems relating to the Engineering Annex Terminal can reach Jill at the Engineering Annex, Room 103A (phone 978-4357).

Ralph Lombardi

UTCC SYSTEMS

SYSTEM/370 MODEL 165-II

- located in SF103/105/112
- provides General Purpose Job Stream, High Speed Job Stream, TSO, WYLBUR
- 4 megabytes of memory
- OS/MVT with HASP

SYSTEM/360 MODEL 65

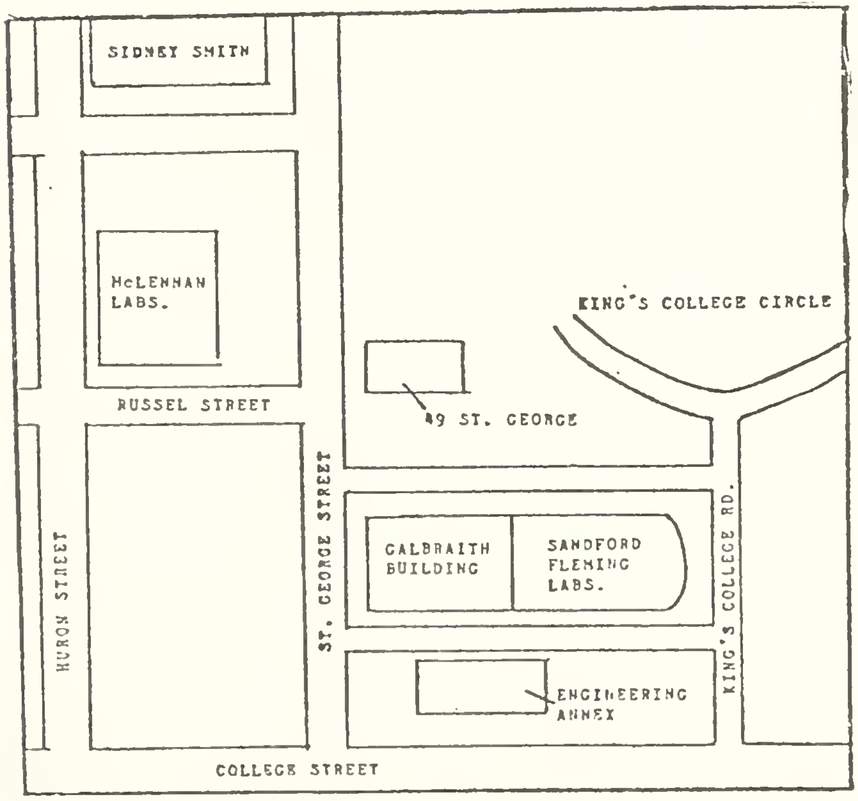
- located in McLennan Physical Laboratories
- provides APL and ATS services
- 1536K bytes of core
- OS/MVT with APL and ATS

COMPUTER RESEARCH FACILITY

- located in SF207
- DEC GT44 System with PDP-11/40 CPU
- DEC GT40 System with PDP-11/05CPU
- provides specialized graphics and interactive graphics
- provides on-line and real-time computing services, data acquisition and minicomputer services

DECSYSTEM 1060

- located in SF109/112
- provides General Purpose Time-Sharing
- 256k - 36 bit words of memory
- TOPS10 operating system



UTCC DIRECTORY

DIRECTOR

Dr. Doron Cohen	NP352	8948

ASSOCIATE DIRECTOR

Rein Mikkor	NP352	5058

ASSOCIATE DIRECTOR

Al Heyworth	ML354	4936

INFORMATION OFFICE

General Inquiries	EA206	4990
Marg Doherty	EA206	8995

MANAGER, SERVICES

Stan Yagi	SG200	7331

INFORMATION SERVICES

Don Gibson	EA201	5568

SUPERVISOR, CUSTOMER SERVICES

Stan Yagi	SG200	7331

SUPERVISOR, PROGRAMMING SERVICES

Helen Peacock	SG201	6877

SUPERVISOR, APPLICATIONS

Herb Kugel	SG304	7286

SUPERVISOR, CO-ORDINATORS

Ralph Lombardi	SG305	7130

COMPUTING CO-ORDINATORS

Engineering Annex Terminal		
Jill Reece	EA103A	4357
Time-Sharing Support		
TS Advisors	EA103	6465
Mark Tapia	EA103A	7109
Program Advisors	EA103	8599
Erindale		
Clem DiPlacido		828-5311
Scarborough		
Ihor Prociuk		284-3173
Arts and Science		
Sue Chong	SS2104	6509
New Physics		
Bob Chambers	NP1201	8823

MANAGER, OPERATIONS

Derry Cox	EA201	7092

SUPERVISORS, OPERATIONS

Paul Scarborough(DEC S/370-165)	SF103	6220
Kam Jain (S/360-65)	NP333	7374
Dave Wong (S/370-158)		6864

MANAGER, SYSTEMS

Sean Keeley		3579

MANAGER, SYSTEM HARDWARE

Eugene Siciunas	EA201	4967

MANAGER, COMPUTER RESEARCH FACILITY

Dennis Smith	SF207	4086

LAB CO-ORDINATOR (CRF)

Krishna Patnaik	SF207	4086

ACCOUNTS

Sylvia May	EA206	7148
Merton Hunte	EA206	8702

ACCESS CODES

Janet Howarth	EA206	8703

NOTE:

EA = Engineering Annex
SF = Sandford Fleming
SG = 49 St. George
NP = McLennan Physical (New Physics)
SS = Sydney Smith

JOB AND SYSTEM STATUS QUERIES

SYSTEM/370,TSO	7373
ATS/APL	6234
2741 TERMINAL MALFUNCTIONS	7107

SERVICES

	DIAL-UP	ADVICE
APL,ATS	7200 CENTREX 7201 NON CENTREX	6710 7107
TSO - 2741	7303	6465
TSO - TTY	7386	6465
DATATALK	6710	6710
WYLBUR	7235(EBCDIC) 3950(ASCII) CENTREX 3954(ASCII) NON CENTREX	8599
DEC	4224 CENTREX 4244 NON CENTREX	6465

UNIVERSITY OF TORONTO
COMPUTER CENTRE,
TORONTO, CANADA,